CHECKLIST ENVIRONMENTAL ASSESSMENT MONTANA FISH, WILDLIFE & PARKS

Region 6, Migratory Bird Stamp Project

Project Name: Mosquito Creek Marsh

Proposed Implementation Date: Summer/Fall 2000

Proponent: Montana Fish, Wildlife & Parks (FWP)

Type and Purpose of Action: Construct dam embankment to develop a 29.1 acre reservoir for use by waterfowl, shorebirds, and other wildlife as well as for livestock water. The dam will be equipped with a primary spillway tube and will be capable of drawdown for managing water levels or for allowing water to pass to downstream senior water users.

Fill for constructing the embankment will be borrowed from the side of a hill along the north side of the drainage and will be re-refaced to a natural looking slope. The estimated fill required for this project is 20,000 cubic yards. All disturbed areas will have top soil spread over them and will be seeded to a native grass seed mix.

Location: SE 1/4 Section 22, T37N, R41E

Approx. 7 miles N and 2 miles west of Glentana

County: Valley

I. PROJECT DEVELOPMENT	
	FWP has been working with two landowners on
1. PUBLIC INVOLVEMENT, AGENCIES, GROUPS OR INDIVIDUALS CONTACTED: Provide a brief chronology of the scoping and ongoing involvement for this project.	this project. Don Risa owns the land where the embankment is proposed for construction and Larry Roberton owns the land up stream which will be flooded periodically during high runoff events. Agreements have been signed by both landowners which allow for the project to proceed. The agreement with Mr. Risa is for 30 years and the agreement with Larry Roberton is perpetual.
	DNRC published a public notice for notifying downstream water users. DNRC has also designated the project as "Not High Hazard". The estimated volume of this project is 116.5 acre-ft.
	FWP contacted the Ft. Peck Tribe Water Resources Office (Tom Escarcega) to discuss the project with them. They did not object to the project but did request a draw down structure be included in the design.
	Total Cost associated with this project is estimated to be \$113,000. This includes approximately \$40,000 for design, soil testing, and construction management, which will be Ducks Unlimited Inc.'s contribution and the remaining \$73,000 for construction which will be paid for by a combination of North American Wetland Conservation Act and Montana Migratory Bird Stamp funds.
2. OTHER GOVERNMENTAL AGENCIES WITH JURISDICTION, LIST OF PERMITS NEEDED:	Form 600 Beneficial Water Use Permit - Issued by DNRC
	Dam Hazard Classification - Classified by DNRC as "Not High hazard" Alternative A. Construct project as
3. ALTERNATIVES CONSIDERED:	described: Preferred Alternative Alternative B. No Action Alternative: under

this alternative, no reservoir would be constructed on this site at this time.

follows the West Fork of the Poplar River

significantly impact this vast grassland area. By providing needed livestock water, this project will help maintain the area as

from Canada to south of Scobey. project will enhance rather than

grassland habitat.

IMPACTS ON THE PHYSICAL ENVIRONMENT POTENTIAL IMPACTS [Y/N] RESOURCE N = Not Present or No Impact will occur. Y = Impacts may occur (explain below) [n] Top soils will be conserved and spread 4.GEOLOGY AND SOIL QUALITY, STABILITY back over the borrow area as well as the AND MOISTURE: Are fragile, compactible or dam embankment. All disturbed sites will unstable soils present? Are there unusual be seeded back to native grass species. geologic features? Are there special reclamation considerations? [n] The upstream watershed for this 5.WATER QUALITY, QUANTITY AND proposed project is approximately 5.5 DISTRIBUTION: Are important surface or square miles in size. Based on watershed groundwater resources present? Is there size, the mean annual runoff for this potential for violation of ambient water quality standards, drinking water maximum drainage is estimated to be 181 ac-ft ± 31% average standard error (utilizing contaminant levels, or degradation of water regression equation for Region 1 from quality? Omang, R.J. and C. Parrett. 1984. A Method for Estimating Mean Annual Runoff of Ungaged Streams Based on Basin Characteristics in Central and Eastern Montana. photocopy). Mosquito Creek generally flows only during spring snowmelt and less regularly during summer storm events. The proposed reservoir would rely primarily on snowmelt for filling. There is no active surface spring activity at the proposed construction site. The watershed is mostly native grassland and is expected to provide good quality water (i.e. low silt loads and low or no agricultural chemicals). There are no known downstream water users on Mosquito Creek. The creek flows into the West Fork of the Poplar River approximately 1.3 miles downstream. Given the estimated yield of the watershed, water is expected to flow through the primary spillway of the proposed dam during years of average to below average runoff. [n] Long term air quality will not be 6.AIR QUALITY: Will pollutants or impacted by this project. Short term dust particulate be produced? Is the project may occur during actual construction which influenced by air quality regulations or may last 1-3 weeks. zones (Class I airshed)? [n] Disturbed areas will be seeded back to 7. VEGETATION COVER, QUANTITY AND a native grass mix. QUALITY: Will vegetative communities be permanently altered? Are any rare plants The reservoir will flood 29.1 acres of or cover types present? grassland. The project area is part of an extensive corridor of grassland that

II. IMPACTS ON THE PHYSICAL ENVIRONMENT

The proposed reservoir is not expected to have significant impact to downstream riparian vegetation. Additional watershed enters Mosquito Creek downstream of the proposed reservoir site. In addition, as with many dams, this reservoir may provide some seepage or subsurface water contribution which may enhance downstream vegetation.

After review by the Montana Natural Heritage it was determined there will be no significant impact to rare plants or cover types.

8.TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS: Is there substantial use of the area by important wildlife, birds or fish?

ly Due to the extensive grassland habitat and adjacent West Fork of the Poplar River floodplain habitat, this area is attractive to a variety of wildlife. This project will enhance the areas by providing a relatively large and shallow semi-permanent wetland. Although the West Fork does also provide wetland habitat, the continuous water flows and annual scouring does not provide as high of quality wetland habitat for some shorebirds and waterfowl species.

The proposed reservoir project is not expected to have any impact on downstream aquatic life. The West Fork of the Poplar does support some fish species. Whereas this proposed project affects a 5.5 square mile watershed, the West Fork of the Poplar has approximately 218 square miles of drainage upstream from the Mosquito Creek confluence and gains an additional 75 square miles of watershed within 2 miles downstream of the confluence.

9.UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES: Are any federally listed threatened or endangered species or identified habitat present? Any wetlands? Sensitive Species or Species of special concern?

[n] After review by the Montana Natural Heritage it was determined there will be no significant impact to threatened or endangered species or species of concern associated with the project area. This project will, however provide wetland habitat for a variety of shorebirds which have shown declining numbers over the past 10+ years.

10.HISTORICAL AND ARCHAEOLOGICAL SITES:
Are any historical, archaeological or
paleontological resources present?

In According to a search of the Montana State Historical Preservation Office database, there are no known archaeological sites associated with the project area. A field survey of the project site was conducted by a U.S. Fish and Wildlife Archaeologist and no significant archeological or paleontological resources were found. The borrow site for constructing the embankment occurs along a hill slope. These types of sites are generally considered to be less sensitive for disturbing archaeological remains as compared to hill tops. However, if

	PHYSICAL ENVIRONMENT archaeological resources are unearthed, construction will be halted and an archaeologist will be consulted.
11.AESTHETICS: Is the project on a prominent topographic feature? Will it be visible from populated or scenic areas? Will there be excessive noise or light? 12.DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR OR ENERGY: Will the project use resources that are limited in the area? Are there other activities nearby that will affect the project? 13.OTHER ENVIRONMENTAL DOCUMENTS PERTINENT TO THE AREA: Are there other studies, plans or projects on this tract?	[n]

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III. IMPACTS ON THE HUMAN POPULATION		
	[Y/N] POTENTIAL IMPACTS AND MITIGATION	
RESOURCE	MEACIPES	
4. HUMAN HEALTH AND SAFETY: Will this project add to health and safety risks in the area?	[n] A dam hazard classification was completed by DNRC. Due to the shallowness, relatively low capacity, and lack of downstream development, the dam was	
15. INDUSTRIAL, COMMERCIAL AND AGRICULTURAL ACTIVITIES AND PRODUCTION: Will the project add to or alter these activities?	[n] This project will flood 29.1 acres of grassland. According to the landowner, this area was not a preferred site for livestock. The water from this project will be available for livestock. This pasture has periodically been in need of livestock water in the past.	
16. QUANTITY AND DISTRIBUTION OF EMPLOYMENT: Will the project create, move or eliminate jobs? If so, estimated number.	[n] The construction project will provide employment for a small crew of equipment operators. In addition, the primary water control structure will likely be manufactured and purchased within Montana.	
17. LOCAL AND STATE TAX BASE AND TAX REVENUES: Will the project create or eliminate tax revenue? 18. DEMAND FOR GOVERNMENT SERVICES: Will substantial traffic be added to existing roads? Will other services	[n] The only increase of traffic would occur during construction which is anticipated to last 1-3 weeks. Actual impacts to roads should be minimal.	
(fire protection, police, schools, tes, be needed? 19. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND COLIG. Are there State, County, City,	[n]	
USFS, BLM, Tribal, etc. 2011ing of management plans in effect?	lyl This project may provide some recreational opportunities including	
wilderness or recreational areas nearby or accessed through this tract? Is there recreational potential within the	watchable wildlife and nunting. The project area is also utilized for antelope and mule deer hunting.	
21. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING: Will the project add to the population and require additional housing?	[n]	

. SOCIAL STRUCTURES AND MORES: Is some	[n]
disruption of native or traditional	
lifestyles or communities possible?	
. CULTURAL UNIQUENESS AND DIVERSITY: WILL	
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the action cause a shift in some unique	
quality of the area?	
OTHER APPROPRIATE SOCIAL AND ECONOMIC	[n]
CIRCUMSTANCES:	
	wildlife Riologist
EA Checklist Prepared By: Rick Nort	hrup Wildlife Biologist I
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. FINDING	
ALTERNATIVE SELECTED:	
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S. SIGNIFICANCE OF POTENTIAL IMPACTS:	
5. SIGNIFICATION OF TOTAL	
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 Need for Further Environmental Analys: 	is:
	[] No Further Analysis
[] EIS [] More Detailed EA	



